



**B.Tech IV Semester Supplementary Examinations, July 2024**

**Engineering Geology**  
(CE)

**Maximum Marks: 70**

Date:20.07.2024 Duration: 3 hours

- Note: 1.This question paper contains two parts A and B.  
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.  
 3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.  
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

**Part-A**

All the following questions carry equal marks		(10X2M=20 Marks)	CO	Bloom Tx
1	Write about the biological weathering?		1	L1
2	Define Geohydrology.		1	L1
3	What is the crystallography?		2	L1
4	Define the minerology.		2	L1
5	Explain the sedimentation process.		3	L2
6	Mention the structure of metamorphic rocks.		4	L2
7	What the recumbent fold?		3	L2
8	Explain the outcrop.		5	L2
9	Define the unconfined aquifer.		5	L2
10	Define the dam.		3	L1

**Part-B**

Answer All the following questions.		(5X10M=50Marks)		
11	What are the types of geological agents? Describe briefly the natural agencies. (10M)		1	L2
OR				
12	Give a brief account of the importance of geology in civil engineering. Explain your answer by giving suitable example. (10M)		1	L1
13	a. What are the types of the silicates? classify and explain with neat diagram. (6M)		2	L2
	b. What is a cleavage in minerals? Mention types of the cleavage. (4M)		2	L2
OR				
14	Describe the physical properties of minerals (i)Calcite (ii)Galena (10M)		2	L1
15	Explain how are the sedimentary rocks formed? Describe the various structures present in the rocks. (10M)		3	L2
OR				

16	a) Define the Porphyritic and poikilitic texture in igneous rocks. (7M) b) What are the types of Granite? (3M)	3	L2
17	a) Effects enumerate the classification and causes of landslides. (5M) b) How are folds classified? Describe different types of folds. (5M)	4 4	L2 L2
OR			
18	Explain the types faults and thrust fault with case study. (10M)	4	L2
19	Explain engineering geological consideration in tunneling? Write the purpose of tunneling. (10M)	4	L2
OR			
20	What are the geological considerations for successful reservoir? (10M)	5	L2